JEL TO THE DEATH BETWEEN SHARK AND SWORDFISH

the Florida coast, was lazily rolling in the gentle swells of the sea, with its idle sails flapping of executing sustained motions. nd anchor chain squeaking dismally. A nall boat had put off from the vessel id two of the rowers were watching veral of the crew disporting in the warm With them was a powerful Newundland dog whose thrashing and barkg added to the interest of the scene.

nlike projection above the water came ito full view he set up a yell of warning. "Sharks Sharks!"

That was sufficient to electrify the wimmers. With one accord they swam ith all their might toward the small oat. They reached it and were hauled board by their companions before the hark could get within striking distance. But not so with the dog. Not realizing he danger, the Newfoundland barked nd swam around the boat, accepting the alls of the men as a part of the game. leanwhile the shark approached rapidly nd the men could see the big dorsal fin leaving the water like a knife.

But it seemed impossible to rescue the log in time. The great man eater knew his and it never for an instant checked e course. When within a few yards of he frantic dog the fin disappeared below he surface and every man knew that the hark was sinking to make the fatal lunge. At the very moment one of the men aught the dog by the collar the open ws of the shark, with their double row f incurving teeth, swept upward. There semed no chance to prevent a tragedy, ut one of the sailors, quick witted and ert, thrust a long oar straight down at te terrible jaws.

More through luck than premeditation

e heavy oar struck the lower jaw a ancing blow and then slipped directly to the mouth. There was a snap and a rk which nearly threw the sailor over-

When he raised the oar from the water was to find it snapped in two as cleanly if cut by an axe. The next minute the en hauled the dripping, panting Newundland dog into the boat.

They tried to frighten the big man eater way with their oars, splashing and shoutig vigorously, but the shark was not ightened by this demonstration. It as too enraged by the wound it had resived from the blade of the oar and too ungry to retreat at once. While these tactics were going on the

wers were so intently watching the ark that they took little note of anying else. Suddenly another long. owerfully built creature swam leisurely atween the boat and the angry shark t looked for an instant like another huge an eater, except that it was slenderer. Apparently attracted by the commoon, the newcomer swept close to the oat to get a good view. The shark at e same instant, having been defeated

its attempts to get at its prey, turned iclously upon the other fish. Its anger and blindness apparently nade it less cautious than usual. With swift movement it lunged toward the her fish, and its powerful jaws snapped gether just as its prey caught sight of it

nd darted forward. The next moment a long, powerful its tail. It was from this wound that fighters with fascinated gaze.

of executing some pretty rapid and long

With a movement so swift that the eye could barely follow it through the water, the giant swordfish dashed toward the shark at the speed of a cut in two as the double row of teeth Always now it was the shark turned to snap angrily at the connection with its body.

fishing smack, anchored off the deep alone if they do not molest it. But when in search of food or when its behind it the shark came, and followed long the survival of the su Between These Two Fierce Ocean Dwellers

the other's vitals. But sharks are quick acting fish too, and the big man eater thrown suddenly on the defensive dodged.

The shark knew that it was powerless to avoid that terrible sword except by thrown suddenly on the defensive dodged.

The shark knew that it was powerless to avoid that terrible sword except by dodging. When the swordfish was within the sailors are quick to avoid that terrible sword except by dodging. When the swordfish was within the sailors are quick to avoid that terrible sword except by dodging. When the swordfish was within the sailors are quick to avoid that terrible sword except by dodging. When the swordfish was within the sailors are quick to avoid that terrible sword except by dodging. When the swordfish was within the sailors are quick to avoid that terrible sword except by dodging. When the swordfish was within the sailors are quick to avoid that terrible sword except by dodging. When the swordfish to avoid that terrible sword except by dodging. When the swordfish was within the sailors are quick to avoid that terrible sword except by dodging. When the swordfish was within the sailors are quick to avoid that terrible sword except by dodging. When the swordfish was within the swordfish to avoid that terrible sword except by dodging. When the swordfish was within the swordfish to avoid the swordfish to av

But it was less accurate in its move-

ments, and its body struck the bottom scarcely a perceptible swish of tail or of the boat in a resounding whack. Tem-

its movements and once more lay quiet. The shark watched it carefully and anxjously. It knew better than the sailors

again in a quick, jerky way, as if trying its power of speed. The shark remained stationary, waiting for the attack. With ever increasing circles and speed swordfish continued its movements. Its speed at times seemed almost incredible. It swept in a clean circle around the boat, plunged deep into the water and then leaped up toward the surface.

Apparently satisfied that it still had the speed and strength necessary for a continuance of the fight, it approached closer to its waiting enemy. It played tag with the shark for a few moments, dashing in and away as if to test its courage but at such a distance that the shark made no effort to pursue.

Then suddenly with a swish of its fins the swordfish turned and darted straight for the shark. It never swerved once from a straight line but shot forward like an arrow from a bow. It was more like a flash of sunlight in the water than the movement of a live fish. The shark saw the approaching attack

and once more sought to dodge the terrible sword. But this time, either through clumsiness or weakness, it was slow in its movements. It delayet its jump second too long.

There was a thud, a violent impact of something hard against flesh and then a mighty commotion of the water. The two big fish thrashed about so violently that for a moment the watchers could not tell which had the advantage.

Blood and foam were whipped together.

The waves created by the struggle rocked the boat. When for an instant the two combatants ceased their fighting the men got a glimpse of the true state of The sword of the smaller creature

was sunk to the very hilt in the body of the shark, the end protruding from the opposite side. The blow had been de-livered squarely in the side of the shark and it was doomed. There was an ineffectual struggle on the part of the shark to pull away

from its adversary. It thrashed the water violently with its tail, gasped and spurted blood from its mouth and then lay quite still on the surface. The blow was mortal and death came quickly. The big, heavy body was seen

to jerk and move violently even after death, but the movements were caused by the swordfish trying to withdraw its long lance. Again and again it jerked and tried to back away from its enemy. But the sword was too deeply embedded in the flesh. Its loss of blood and the fearful wounds it had received from the shark rendered

the swordfish helpless. Its own mortal wound had been delivered before the last attack, and it was now only a matter of time before it would succumb. Out of mercy for the victorious creature

the sailors rowed up to the two and with sword.



FULLY TWO FEET OUT OF THE WATER THE SHARK LEAPED.

ad disposed to let other finny inhabitants with the fight, and then swung around for an instant, and barely escaped being was no letup in the struggle.

The next moment a long, powerful yordfish leaped a foot out of the water ad began thrashing the sea into a white am. The water was instantly dyed and leaped sideways to escape the cruel plunged and around the boat they raced.

But once more the sword raked its side, missing the swordfish each time by only dripping with blood and its beady eyes a test of speed and endurance the shark and each time by only dripping with blood and its beady eyes a test of speed and endurance the sword raked its side, missing the swordfish each time by only dripping with blood and its beady eyes a test of speed and endurance the shark and the sword raked its side, and the swordfish each time by only dripping with blood and its beady eyes a test of speed and endurance the sword raked its side, and the swordfish each time by only dripping with blood and its beady eyes a test of speed and endurance the sword raked its side, and the swordfish each time by only dripping with blood and its beady eyes a test of speed and endurance the sword raked its side, and the swordfish each time by only dripping with blood and its beady eyes a test of speed and endurance the sword raked its side, and sharing viciously. Then down again they watchers expected to see the combat.

The next moment a long, powerful is a few well directed blows on the head and the sword raked its side, and a few well directed blows on the head and the sword raked its side, and a few well directed blows on the head and the sword raked its side, and a few well directed blows on the head and the sword raked its side, and a few well directed blows on the head and the sword raked its side, and a few well directed blows on the head and the sword raked its side, and a few well directed blows on the head and the sword raked its side, and a few well directed blows on the head and the sword raked its side, and the sword raked its side,

ad seen that part of its tail was missing.
The shark had caught the swordfish, for the next round. The sailors, forgetT guard and snapped off fully six inches.

The two combatants remained thus for the fighting blood of the shark to the surface.

The fight was so fierce that neither combatant could keep up the page for upon their strength. The attack is the fitted swordfish. for the next round. The sailors, forget-ting their own danger, watched the two Taking advantage of the muddled water long. At one moment the two big less vicious, and the dodging of the sword-fighteen with formula to the first rength. The attack was better the two carcasses were towed to the side of the ship and the shark was created by the commotion, it plunged creatures floundered around on the sur-fish was slower and less dexterous. It the water. From the sides of each little cut in half before the sword could be

Once more the swordfish began the Now the swordfish is usually a quiet reature, rarely ascending to the surface rate of the swordfish lost sight of it rising to the surface showed that there the blood came.

Once more the swordfish began the downward to a great depth, and then face of the water, and the next dropped swistled and then sprang upward with the huge jaws exproved. By actual measurement it sprang upward with the huge jaws exproved to be nearly four feet in length, turned and darted away, as if disgusted tended. The swordfish lost sight of it rising to the surface showed that there

through it, but it dipped at the critical renew the conflict. But clearly one of them over a ton and a half in bone and flesh.

terminate by the retreat of the discom- could exert would serve to release the

TO-MORROW WILL BE CENTENARY OF THE GREATEST EARTHQUAKE IN THE HISTORY OF THE COUNTRY

great central Mississippi Val-

arthquake disease.

It seems a curious coincidence that gested population and the structures this to say: in two important cities. The New "Analogies hich has suffered most severely from Madrid earthquake left no marked im- the recurrence of the New Madrid earth- from Cairo, south to Memphis. e recent great floods of the Missis- pression on the history of the country, quake within a century, since in all magnitude of the disturbance will be ppi River. This, however, is merely because, although far more severe and these countries which have been visited realized when it is stated that througha instance of cause and effect, for the st great earthquake which visited the settled and at that time unimportant has extended over a great length of United States the vibrations could be gion resulted in the formation of the region. The destructive period of the time, it has been found that their visits plainly felt. Sunk Lands," and thus rendered them need to be most susceptible to flooding.

Now, what would the average person sippi Valley persisted at intervals for Sunk Lands," and thus rendered them few minutes; that in the lower Missishundred years."

As described by the geographer Flint, who visited the area a few years after the shocks, the country exhibited a stretched entirely across the Mississippi.

the centenary of the New center and the recent covered 15 square miles more.

O'-MORROW, December 16, is contenated in the center of the New center of the New covered 15 square covered 15 square miles more.

O'-MORROW, December 16, is covered 16, is covered to be covered 16, is covered 16, is covered 16, is covered 17 square covered 17 square miles more. scientists have said that succeeding of the Mississippi Valley, which, during arthquakes should be expected at inrises an unstable geologic formation, which has what may be called the Francisco disturbances were national shock.

Wrought great changes in the surface of a recurrence of sures in the whole region. Calro is also the New Madrid earthquake some years within the area that might be affected. St. Louis might also feel the shock.

Madrid earthquakes in the Charleston, S. C., quake in 1886." that it was not the first to affect the Any earthquake or near great central Mississippi Valy. Should the region from Cairo to
lemphis again be shaken it would be definitely prophesied recurrence of the ing that followed in their wake; but in are that what has occurred in the past felt in such towns as Hickman, Ky. onvulsions which affected the same severity and extent of disturbance they will recur in the future. The geological caruthersville, New Madrid, Campbell are not to be compared with what is cal evidence is indisputable that the rea 100 years ago and 200 years ago. are not to be compared with what is call the compared with the compared with what is call the compared with the compared with

> disasters because they affected the congested population and the structures this to say:
>
> United States Geological Survey had earthquake of a century ago lies ir-"Analogies indicate the probability of regularly along the Mississippi River

> > As described by the geographer Flint,

degrees or split in the middle. Descrip-tions of the occurrence in a report of the wide. Large areas in what is known leaving parallel fissures extending for thus formed. distances as great as five miles in some cases and from twenty to thirty feet wide. At one point the Mississippi River was broken in two, admitting great quantities of water into new formed chasms which immediately closed, giving rise to waves of great size. From many of the fissures sand and water were forcibly extruded.

Many forms were in whole or in part precipitated into the streams, others were covered by extruded waters and still others were depressed or sunk and overflowed. Great wreckage occurred on the Mississippi River, and entire islands disappeared, notably island No. 94, near Vicksburg. Near New Madrid esignate as the greatest earthquake more than a year.

Shaler will complete itself on Monday, melancholy aspect of chasms, of forceating a waterfall from six to eight merly rich lands covered two or three feet high.

uplifted. River channels which were times. frequented by deep draught boats are now dry land, and islands were also formed. M. L. Fuller of the United States Geological Survey estimates that Madrid region is likely to be affected covered about seventy-five square miles presses the hope that the catastropho of forest, and swamps formed at the may be long deferred.

Besides these submerged forests, in

other great areas the timber was utterly as the St. Francis Basin sank bodily ruined by landslides. The published ac-United States Geological Survey say that the earth rolled in waves several feet high, with deep depressions between the swells, finally bursting and leaving parallel fissures extending for thus formed. published a bulletin containing a de-The English geologist Lyell and tailed account of the New Madrid earthothers who visited the Sunk Lands quake. some years after the earthquake desome years after the submergence of forests of oak which escaped destruction in 1811

scribe the submergence of forests of cypress, saying that they could paddle their boats among the branches and that "there are large trees of walnut, white oak and mulberry, such as grow white oak and mulberry, such as grow the former earthquake was at least 100 years old, so that the former earthquake was at least 100 years old, so that the former earthquake was at least 100 years of the former earthquake was on high land, which are now submerged ten to twenty feet beneath the water." On the other hand certain areas were throughout the same region in earlier

the earthquake destroyed 150,000 acres at any time, no one can prophesy, he The forest area now com- says, with any accuracy when such an prising Reelfoot Lake alone originally outbreak may be expected, and he ex-



Earthquake Cracking



Portion Shows Chronic Earthquake Area. Dotted Line, Flood Area.



Chaos Produced by Earthquake Slippings